



Electronic Filing System (EFS) Data  
Electronic Patent Application Submission  
USPTO Use Only

EFS ID: 63932  
Application ID: 09739618  
Title of Invention: Object-Based Storage Device  
with Improved Reliability and  
Fast Crash Recovery  
First Named Inventor: John Howard  
Domestic/Foreign Application: Domestic Application  
Filing Date: 2000-12-18  
Effective Receipt Date: 2004-07-02  
Submission Type: Information Disclosure  
Statement  
Filing Type:  
Confirmation number: 3682  
Attorney Docket Number: 5181-59100  
  
Total Fees Authorized: 180.0  
Payment Category: Deposit Account  
Deposit Account Number: 501505  
Deposit Account Name: Lawrence Merkel  
Access Code: \*\*\*\*  
RAM Payment Status: RAM success  
RAM User ID: EFSPROD  
RAM Accounting Date: 2004-07-02  
RAM Sequence Number: 9






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Digital Certificate Holder: cn=Lawrence J. Merkel,ou=Registered Attorneys,ou=Patent and  
Trademark Office,ou=Department of Commerce,o=U.S. Government,c=US  
Certificate Message Digest: 1cb61662e0ebb8d7e9f4bbe6873ec33770e504ec

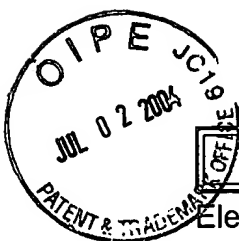


# TRANSMITTAL

Electronic Version v1.1  
Stylesheet Version v1.1.0

Title of Invention	Object-Based Storage Device with Improved Reliability and Fast Crash Recovery																		
<table border="0"><tr><td>Application Number:</td><td>09/739618</td><td></td><td rowspan="4"><b>RECEIVED</b> JUL 07 2004 Technology Center 2100</td></tr><tr><td>Date:</td><td>2000-12-18</td><td></td></tr><tr><td>First Named Applicant:</td><td>John H Howard</td><td></td></tr><tr><td>Confirmation Number:</td><td>3682</td><td></td></tr><tr><td colspan="3">Attorney Docket Number: 5181-59100</td><td></td></tr></table>			Application Number:	09/739618		<b>RECEIVED</b> JUL 07 2004 Technology Center 2100	Date:	2000-12-18		First Named Applicant:	John H Howard		Confirmation Number:	3682		Attorney Docket Number: 5181-59100			
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Date:	2000-12-18																		
First Named Applicant:	John H Howard																		
Confirmation Number:	3682																		
Attorney Docket Number: 5181-59100																			
<p>I hereby certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.</p> <p>I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.</p> <table border="1"><thead><tr><th>Submitted by:</th><th>Elec. Sign.</th><th>Sign. Capacity</th></tr></thead><tbody><tr><td>Lawrence Merkel Registered Number: 41191</td><td>Lawrence Merkel</td><td>Agent</td></tr></tbody></table>				Submitted by:	Elec. Sign.	Sign. Capacity	Lawrence Merkel Registered Number: 41191	Lawrence Merkel	Agent										
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Lawrence Merkel Registered Number: 41191	Lawrence Merkel	Agent																	
Documents being submitted		Files																	
us-fee-sheet		IDS7-2-usfees.xml																	
		us-fee-sheet.xml																	
		us-fee-sheet.dtd																	
us-ids		IDS7-2-usidst.xml																	
		us-ids.dtd																	
		us-ids.xml																	

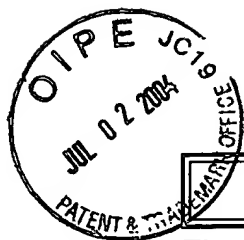
Comments



# FEE TRANSMITTAL

Electronic Version v08  
Stylesheet Version v08.0

Title of Invention	Object-Based Storage Device with Improved Reliability and Fast Crash Recovery										
<div>Application Number: 09/739618 </div> <div>Date: 2000-12-18</div> <div>First Named Applicant: John H Howard</div> <div>Attorney Docket Number: 5181-59100</div> <div>Art Unit: 2143</div> <div>Examiner: Mitra Kianersi</div> <div>RECEIVED JUL 07 2004 Technology Center 2100</div>											
<b>TOTAL FEE AUTHORIZED \$180</b>  Patent fees are subject to annual revisions on or about October 1st of each year.											
<b>BASIC FILING FEE</b>											
<table border="1"><thead><tr><th>Fee Description</th><th>Fee Code</th><th>Amount \$</th><th>Fee Paid \$</th></tr></thead><tbody><tr><td>Submission Of Information Disclosure Stmt Fee</td><td>1806</td><td>180</td><td>180</td></tr></tbody></table>				Fee Description	Fee Code	Amount \$	Fee Paid \$	Submission Of Information Disclosure Stmt Fee	1806	180	180
Fee Description	Fee Code	Amount \$	Fee Paid \$								
Submission Of Information Disclosure Stmt Fee	1806	180	180								
<b>AUTHORIZED BILLING INFORMATION</b> The commissioner is hereby authorized to charge indicated fees and credit any overpayments to: Deposit account number: 501505 Access Code ***** Deposit name: Meyertons,Hood,Kivlin,Kowert,Goetzel,P.C. Deposit authorized name: Lawrence Merkel Signature: Lawrence Merkel Date (YYYYMMDD): 2004-07-02  Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.											



## ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Object-Based Storage Device with Improved Reliability and Fast Crash Recovery
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Application Number: 09/739618

Confirmation Number: 3682

First Named Applicant: John Howard

Attorney Docket Number: 5181-59100

Art Unit: 2143

Examiner: Mitra Kianersi

Search string: ( 6651140 or 6567853 or 6493804 or 6453354  
or 6442613 or 6389420 or 6339793 or 6324581  
or 6012060 or 5940594 or 5893140 or  
5566331 ).pn.



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### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	6651140	2003-11-18	Kumar			
	2	6567853	2003-05-20	Shomler			
	3	6493804	2002-12-10	Soltis et al			
	4	6453354	2002-09-17	Jiang et al			
	5	6442613	2002-08-27	Gregg et al			
	6	6389420	2002-05-14	Vahalia et al			
	7	6339793	2002-01-15	Bostian et al			
	8	6324581	2001-11-27	Xu et al			
	9	6012060	2000-01-04	Loaiza et al			
	10	5940594	1999-08-17	Ali et al			
	11	5893140	1999-04-06	Vahalia et al			
	12	5566331	1999-10-15	Irwin et al			

### Remarks

Note: Remarks are not for responding to an office action.

Additional reference to accompany form PTO-1449.

Signature

Examiner Name	Date

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